33.

Atty. Dkt. No. 072827-0372

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Alan L. Mueller, et al.

Title:

Compounds Active at a Novel Site on Receptor-Operated Calcium Channels Useful for Treatment of Neurological Disorders and

Diseases

Appl. No.:

10/797,355

Filing Date:

March 9, 2004

Examiner:

A. Pryor

Art Unit:

1616

CERTIFICATE OF FACSIMILE TRANSMISSION

I hereby certify that this paper is being facsimile transathred to the United States Patent and Trademark Office, Alexandria, Virginia on the date below.

DIANE GARCIA

(Simulana)

July 26, 2005 (Date of Deposit)

TERMINAL DISCLAIMER

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Your Petitioner, NPS Pharmaceuticals, Inc., having its principal place of business at 383 Colorow Drive Way, Salt Lake City, Utah 84108, represents that it is the owner of the entire right, title, and interest in and to U.S. Patent Application Serial No. 10/797,355, filed 2/23/2004, which is a continuation of co-pending U.S. Application No. 09/825,373 filed on April 2, 2001; which is a continuation of U.S. Application No. 09/186,341 filed November 4, 1998, now U.S. Patent No. 6,211,245; which is a continuation of U.S. Application No. 08/873,011, filed June 11, 1997, now abandoned; which is a continuation-in-part of U.S. Application No. 08/869,154, filed June 4, 1997, now abandoned; which is a continuation-in-part of U.S. Application No. 08/763,480, filed December 11, 1996, now U.S. Patent No. 6,017,965; which is a continuation-in-part of U.S. Application Ser. No. 08/663,013, filed June 7, 1996, now abandoned; which is a continuation-in-part of U.S. Application Ser. No. 08/485,038, filed June 7,

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1995, now U.S. Patent No. 6,071,970; which is a continuation-in-part and a National Stage application of International Patent Application No. PCT/US94/12293 (WO 95/21612), filed October 26, 1994 and designating the United States; which is a continuation-in-part of U.S. Application Serial No. 08/288,668, filed August 9, 1994, now abandoned; which is a continuation-in-part of U.S. Application Ser. No. 08/194,210, filed February 8, 1994, now abandoned, all by virtue of an Assignment recorded on July 22, 1993 on Reel/Frame 6697/0470 with the United States Patent and Trademark Office Assignment Division, a copy of which is attached hereto as APPENDIX A; and which is a continuation-in-part of U.S. Serial No. 08/014,813, filed February 8, 1993, now abandoned, by virtue of an assignment recorded on June 17, 1994 on Reel/Frame 7007/0967, with the United States Patent and Trademark Office Assignment Division, a copy of which is also attached hereto as APPENDIX A.

Further, your Petitioner represents that it is the owner of U.S. Patent No. 6,750,244, which issued on June 15, 2004 (formerly U.S. Patent Application No. 09/825,373, filed April 2, 2001), which is a continuation of U.S. Application No. 09/186,341 filed November 4, 1998, now U.S. Patent No. 6,211,245; which is a continuation of U.S. Application No. 08/873,011, filed June 11, 1997, now abandoned; which is a continuation-in-part of U.S. Application No. 08/869,154, filed June 4, 1997, now abandoned; which is a continuation-in-part of U.S. Application No. 08/763,480, filed December 11, 1996, now U.S. Patent No. 6,017,965; which is a continuation-in-part of U.S. Application Ser. No. 08/663,013, filed June 7, 1996, now abandoned; which is a continuation-in-part of U.S. Application Ser. No. 08/485,038, filed June 7, 1995, now U.S. Patent No. 6,071,970; which is a continuation-in-part and a National Stage application of International Patent Application No. PCT/US94/12293 (WO 95/21612), filed October 26, 1994 and designating the United States; which is a continuation-in-part of U.S. Application Serial No. 08/288,668, filed August 9, 1994, now abandoned; which is a continuation-in-part of U.S. Application Ser. No. 08/194,210, filed February 8, 1994, now abandoned, all by virtue of an Assignment recorded on July 22, 1993 on Reel/Frame 6697/0470 with the United States Patent and Trademark Office Assignment Division, a copy of which is attached hereto as APPENDIX A; and which is a continuation-in-part of U.S. Serial No.

Atty. Dkt. No. 072827-0372

08/014,813, filed February 8, 1993, now abandoned, by virtue of an assignment recorded on June 17, 1994 on Reel/Frame 7007/0967, with the United States Patent and Trademark Office Assignment Division, a copy of which is also attached hereto as APPENDIX A.

Your Petitioner, NPS Pharmaceuticals, Inc., hereby disclaims the terminal part of the term of any patent granted on the above identified patent application which would extend beyond the full statutory term, as presently shortened by any terminal disclaimer, of U.S. Patent No. 6,750,244, and hereby agrees that any patent so granted on the above identified patent application shall be enforceable only for and during such period that the legal title to U.S. Patent No. 6,750,244 shall be the same as the legal title to any patent granted on the above identified patent application, this agreement to run with any patent granted on the above identified patent application and to be binding upon the grantee, its successors or assigns.

In making the above disclaimer, Petitioner does not disclaim any terminal part of any patent granted on the above identified patent application, prior to the full statutory term of U.S. Patent No. 6,750,244 as defined in 35 U.S.C. §§154-156 and 173, in the event that U.S. Patent No. 6,750,244 expires for failure to pay a maintenance fee, is held unenforceable or is found invalid in a final judgment by a court of competent jurisdiction, is statutorily disclaimed in whole or terminally disclaimed under 37 CFR §1.321(a), has all claims canceled by a reexamination certificate or as a result of an interference proceeding, or is otherwise not deemed to provide the rights conveyed by 35 USC §154, prior to the full statutory term of U.S. Patent 6,750,244 as defined in 35 USC §§154-156 and 173, except for the separation of legal title stated above. Further, Petitioner does not disclaim any terminal part of a patent granted on the above identified patent application that would extend beyond the present termination of U.S. Patent 6,750,244, in the event that such present term is extended by virtue of compliance with the conditions for term extension of any present or future patent term extension provisions of the patent law, including but not limited to 35 U.S.C. §§155, 155A or 156, and without waiving Petitioner's right to extend the term of a patent granted on the above identified patent application to the extent provided by law.

Atty. Dkt. No. 072827-0372

The undersigned, being the Attorney of Record for the above identified patent application, and duly authorized to act on behalf of Petitioner, certifies that he has reviewed the Assignments attached as APPENDIX A, and to the best of his knowledge and belief, legal title to the above identified patent application and U.S. Patent No. 6,750,244 rests with Petitioners, NPS Pharmaceuticals, Inc.. The undersigned declares that all statements made herein of his own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the above-identified application or any patent issuing there from.

Respectfully submitted,

Date

FOLEY & LARDNER LLP

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ъ.

Barry & Wilson

Attorney for Applicant Registration No. 39,431

US006750244B2

(12) United States Patent Mueller et al.

(10) Patent No.:

US 6,750,244 B2

(45) Date of Patent:

Jun. 15, 2004

(54) COMPOUNDS ACTIVE AT A NOVEL SITE ON RECEPTOR-OPERATED CALCIUM CHANNELS USEPUL FOR TREATMENT OF NEUROLOGICAL DISORDERS AND DISEASES

- (75) Inventors: Alan L. Mueller, Salt Lake City, UT (US); Scott T. Moe, Salt Lake City, UT (US)
- (73) Assignce: NPS Pharmaceuticals, Inc., Salt Lake City, UT (US)
- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.
- (21) Appl. No.: 09/825,373
- (22) Filed: Apr. 2, 2001
- (65) Prior Publication Data

US 2002/0004522 A1 Jan. 10, 2002

Related U.S. Application Data

(63) Continuation of application No. 09/186,341, filed on Nov. 4, 1998, now Par. No. 6,211,245, and a continuation of application No. 08/873,011, filed on Jun. 11, 1997, now abandoned, which is a continuation-in-part of application No. 08/63,480, filed on Dec. 11, 1996, now Par. No. 6,017,965, which is a continuation-in-part of application No. 08/663, 013, filed on Jun. 7, 1996, now abandoned, which is a continuation-in-part of application No. 08/485,038, filed on Jun. 7, 1995, now Par. No. 6,071,970, which is a continuation-in-part of application No. 02,0485,038, filed on Oct. 26, 1994, which is a continuation-in-part of application No. 08/288,688, filed on Aug. 9, 1994, now abandoned, which is a continuation-in-part of application No. 08/194, 210, filed on Feb. 8, 1994, now abandoned, which is a continuation-in-part of application No. 08/194, 210, filed on Feb. 8, 1994, now abandoned, which is a continuation-in-part of application No. 08/194, 210, filed on Feb. 8, 1993, now abandoned.

(31)	INC Ch AGIA 31/333; AGIA 31/38/;
	C07D 311/04; C07D 335/12
(52)	U.S. CL 514/431; 514/437; 514/450;
	514/454; 549/12; 549/26; 549/354; 549/388
(58)	Field of Search 549/388, 12, 26,
	549/354; 514/454, 431, 437, 450

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(54) T-4 (01.7)

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(List continued on next page.)

Primary Examiner—Richard L. Raymond (74) Attorney, Agent, or Firm—Folcy & Lardner

(57) ABSTRACT

Method and compositions for treating a patient having a neurological disease or disorder, such as stroke, head trauma, spinal cord injury, spinal cord ischemia, ischemia-or hypoxia-induced nerve cell damage, epilepsy, anxiety, neuropsychiatric or cognitive deficits due to ischemia or hypoxia such as those that frequently occur as a consequence of cardiac surgery under cardiopulmonary bypass, or neurodegenerative diseases such as Alzheimer's Disease, Huntington's Disease, Parkinson's Disease, or amyotrophic lateral sclerosis (ALS).

5 Claims, No Drawings

APPENDIX A

DATE: 07/05/94

TO:

39.



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

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ASSIGNOR:

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ASSIGNOR:

DELMAR, ERIC G.

ASSIGNOR:

BALANDRIN, MANUEL F.

ASSIGNOR:

MOE, SCOTT T.

ASSIGNOR:

ARTMAN, LINDA D.

DOC DATE: 04/15/94

DOC DATE: 04/15/94

DOC DATE: 04/27/94

DOC DATE: 04/27/94

DOC DATE: 04/15/94

DOC DATE: 04/27/94

RECORDATION DATE: 06/17/94 NUMBER OF PAGES 005 REEL/FRAME 7007/0967

DIGEST: ASSIGNMENT OF ASSIGNORS INTEREST

ASSIGNEE:

NPS PHARMACEUTICALS, INC. 420 CHIPETA WAY SUITE 240 SALT LAKE CITY, UT 84108 7007/0967 PAGE 0002

SERIAL NUMBER PATENT NUMBER

8-194210

FILING DATE 02/08/94

ISSUE DATE

00/00/00

ASSIGNMENT BRANCH

ASSIGNMENT/CERTIFICATION SERVICES DIVISION

ASSIGNMENT

For valuable consideration, we, Alan I. Mueller of Salt Lake City. Utah: Bradford C. Van Wagenen of Salt Lake City, Utah; Eric G. Delmar of Salt Lake City, Utah; Manuel F. Balandrin of Sandy, Utah; Scott T. Moe of Salt Lake City, Utah; and Linda D. Artman of Salt Lake City, Utah hereby assign to NPS PHARMACEUTICALS, INC., a Delaware corporation having a place of business at Salt Lake City. Utah, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are the subject of an application for United States Patent, Serial No. 08/194,210, filed on February 8, 1994 entitled COMPOUNDS ACTIVE AT A NOVEL SITE ON RECEPTOR OPERATED CALCIUM CHANNELS USEFUL FOR TREATMENT OF NEUROLOGICAL DISORDERS AND DISEASES. this assignment including said application, and any and all United States and foreign patents gramed for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our names or in its own name for patents and like rights of exclusion and for inventor's certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

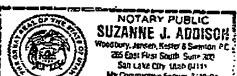
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Before me this	rday of April , 19)94 , personally	ibbeateq
Alan L. Muoller	_ known to me to be the l	erson whose nan	ne is subscribed
to the foregoing Assignment and ac	knowledged that he execu	yted the same as i	his free act and
deed for the purposes therein conta	ined.	Λ	Λ·

IN WITNESS WHEREOF, I hereto set my hand and seal at _sate_lake_city, _titeh_

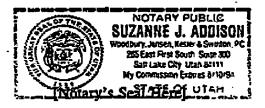


My commission expires: 8/21/94

IN WITNESS WHEREOF, I hereto set my hand and seal at Salt Lake City, Utah 22nd day of _April . 1994. State of __ Utah County of Salt Lake Before me this 27th day of April , 1994, personally appeared Eric 8. DelMar known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.



2005 4:56PM FOLEY 8587926773	43. NO. 1757 P. 44rent
IN WITNESS WHEREOF, I hereto set my h 15thday of, 1994.	manuel of Balandin L.S. FIRST MIDDLE LAST
State of : ss. County of : _	
Manuel F. Balandrin known t	Aoril , 1924 , personally appeared to me to be the person whose name is subscribed
to the foregoing Assignment and acknowledge	ed that he executed the same as his free act and
deed for the purposes therein contained.	Notary Public
NOTARY PUBLIC SUZANNE J. ADDISON Woodpury James Resist & Swindlin PC Seat Metro Swin Sust 300 San Late City Usan 8411 My Compression Expres 8/10/59 STATE OF UTAM	My commission expires: 8/21/94
IN WITNESS WHEREOF, I hereto set my 15th day of April	hand and seal at Salt Lake City, Utah, this FIRST MIDDLE LAST
State of Utah : Ss. County of Salt Lake :	
Before me this 15th day of	April , 1994 , personally appeared
	to me to be the person whose name is subscribed
	ged that he executed the same as his free act and
deed for the purposes therein contained.	Danne J. addison



deed for the purposes therein contained.

My commission expires: . 8/21/94

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ASSIGNOR: DOC DATE: 04/27/94

VANWAGENEN, BRADFORD C.

ASSIGNOR: DOC DATE: 04/27/94

DELMAR, ERIC G.

ASSIGNOR: DOC DATE: 04/15/94

BALANDRIN, MANUEL F.

ASSIGNOR: DOC DATE: 04/15/94

MOE, SCOTT T.

ASSIGNOR: DOC DATE: 04/27/94

ARTMAN, LINDA D.

RECORDATION DATE: 06/17/94 NUMBER OF PAGES 005 REEL/FRAME 7007/0967

DIGEST: ASSIGNMENT OF ASSIGNORS INTEREST

ASSIGNEE:

NPS PHARMACEUTICALS, INC.

420 CHIPETA WAY

SUITE 240

SALT LAKE CITY, UT 84108

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7007/0967 PAGE 0002

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8-194210

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SSCOTT T. Moe (Linda D. Artman Additional name(s) of conveying panyless) anached? D Yes @ No	Internal Address: Salt Lake City UT
3. Nature of conveyance: / C/	
Marger D Merger	Street Address: 420 Chipeta Way
☐ Security Agreement ☐ Change of Name	Suite 240
□ Other	City: Salt Lake City State: UP ZIP: 84108
Execution Date: (April 15) 22 27, 1994	Additional romo(a) & address(ea) machad? - Ra-Yes (a-Wo-
(4. Application number(s) or patent number(s): 08/194,210	O, filed February 8, 1994
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S. Marie and publishes of party to whom correspondence concerning document should be malled:	6.) Total number of applications and parents involved:
Name: Richard J. Warburg, Esq.	7. Josel fee (37 CFR 3.41)\$_40.00
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9. Statement and signature. To the best of my knowledge and belief, the foregoing infonthe original document. Steven M. Weiss	mation is true and correct and any attached copy is a true copy of
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MUELLER, ALAN L.

RECORDATION DATE: 07/22/93 NUMBER OF PAGES 002 REEL/FRAME 6697/0470

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ASSIGNEE:

NPS PHARMACEUTICALS, INC. 420 CHIPETA WAY SALT LAKE CITY, UT 84108

SERIAL NUMBER PATENT NUMBER 8-014813

FILING DATE 02/08/93 ICSUE DATE 00/00/00

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ASSIGNOR:

MUELLER, ALAN L.

DOC DATE: 05/18/93

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ASSIGNEE:

NPS PHARMACEUTICALS, INC.

420 CHIPETA WAY SALT LAKE CITY, UT 84108

SERIAL NUMBER 8-014813 FILING DATE 02/08/93 PATENT NUMBER ISSUE DATE 00/09/00

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Alan L. Mueller	Name: NPS PHARMACEUTICALS, INC.			
	2			
·	Internal Address:			
Additional name(s) of conveying party(ics) attached?YesX No	\$ 3			
3. Nature of conveyance:	Street Address: 420 Chipeta Way. Chipeta Way			
X Assignment Merger Security Agreement Change of Name Other	City: Salt Lake City State: UT 200 84108			
Execution Date: May 18, 1993	Additional name(s) & address(cs) attached?Yes			
4/Application number(s) or patent number(s): 08/014,813	, filed February 8, 1993			
If this document is being filed together with a new application, the execution	n date of the application is:			
A. Patent Application No(s).	B. Patent No(s). AUG 1 0 1993			
Additional numbers attac	hadi Var Y No.			
5. Name and address of party to whom correspondence concerning	- is - is in it is in			
document should be mailed:	6. Total number of applications and patents involved:			
Name Richard J. Warburg, Esq.	10.00			
Internal Address: SAN DIEGO OFFICE	7. Total fee (37 CFR 3.41):			
	Enclosed X Authorized to be charged to deposit account			
Street Address 611 West Sixth Street	-8. Deposit Account Number: 12-2475			
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Richard J. Warburg	19/7/93:			
Name of Person Signing 91607300	ature: Date Total number of pages comprising cover sheet: 32			
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ASSIGNMENT

For valuable consideration	on, I, Alan L. Mueller	
of Salt Lake City	Utah hereby assign	
CTY OF TOWN	state	
to NPS PHARMACEUTIC	CALS, INC.	
Delaware	corporation having a place of business	
at Salt Lake City	Utah	
	ns (collectively hereinafter called "the Assignee"), the	
	t throughout the world in the inventions and improve-	
	•	13
	Serial No. 08/014,8 of an application for United States Patent Rights by High Compounds ACTIVE AT A NOVEL SITE ON NOPHORE COMPLEX USEFUL FOR TREATMENT OF RS	
this assignment including sa patents granted for any of sa priority based on the filing dat for the Protection of Industria Patent Convention, and all off to apply in all countries in my exclusion and for inventor's of agree for myself and my he compensation to perform su assignments, Preliminary Sta	aid application, any and all United States and foreign aid inventions or improvements, and the right to claim the of said application under the International Convention of Property, the Patent Cooperation Treaty, the European their treaties of like purposes; and I authorize the Assignee by name or in its own name for patents and like rights of certificates for said inventions and improvements; and I directly in the certificates and the said inventions and improvements; and I directly lawful acts and to sign such further applications, attements and other lawful documents as the Assignee affectuate fully this assignment.	inche O O o o o o o
In WITNESS WHEREOF, I hereto set I	my hand and seal at Salt Lake City	•
ʊ̞ˈt̞aḥ, this	/6 ** day of	
	Alan I Mulle L.S. PIRST Alan MIDDRE INITIAL L. LANTMUELLET	
	55.	
- 10th	Marr 02	
	day of May, 19, personally	
appeared . Alan L. Muell the person whose name is subthat he executed the same as h	scribed to the foregoing Assignment and acknowledged his free act and deed for the purposes therein contained. Annual Liddom Notary Profile	
(Notary's	My commission expires: 8-10-94	
Seel bere] NOTARY PUBLIC SUZANNE J. ADDISON	-~~CDDEII	
Woodbury, Jensan Kesler & Swinton PC 265 Eagl First South State 300 Salt Lake City URah 84111	PATENT AND TRADEMARK OFFICE	
Commission Expires 8/10/9 STATE OF UTAH	JUL 22 1993	